

Fig. 2

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400					15	
context server table	ndler				415	
context se	request handler	(reference)	(reference)	(reference)		
	filename	gps.exe	ips.exe	l_r_a.exe	414	
	installation date	3/10/2000	2/21/2000	2/10/2000	12	Fig. 4
	version	1	1	1	412	
	context server name	gps	sdi	403 location_region_analysis	411	
•		401— gps	405	403	•	

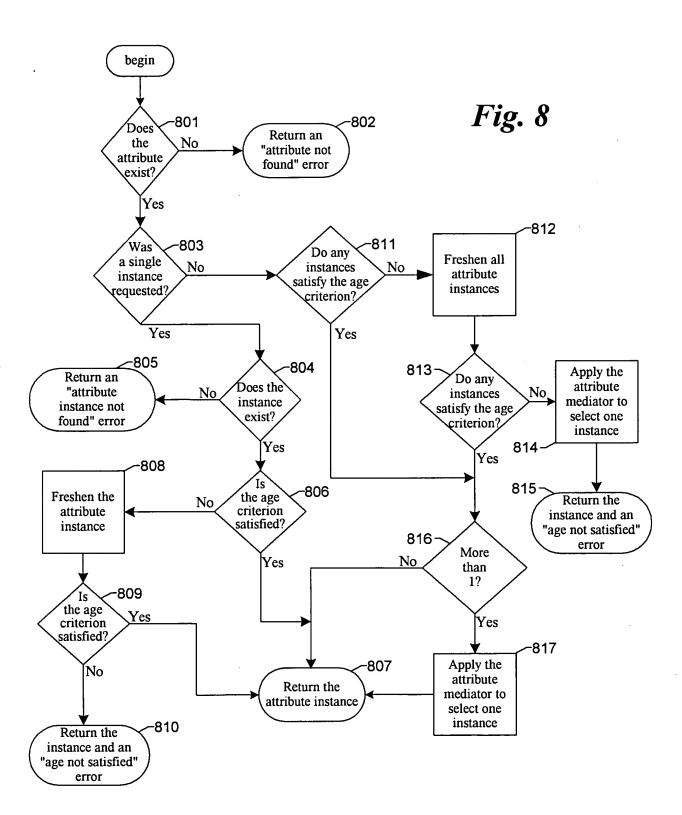
500						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
	501-	sd8	47° 38.73° N, 122° 18.43° W	.00° 0	13:11:04.023 2/22/2000	degrees/minutes	2
	502 user location	sdi	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
	user elevation	sdi	22	.5	13:11:01.118 2/22/2000	meters	
504	user.in_region	location_region_ analysis	none	none	none	none	0
	-511	515	-513	-514	-515	-516	-517

Hig. 5

601 location_map (reference) 602 distance_from_home (reference) 603 region_analysis (reference)	ac part correct
611	IIICSSABG HAHUIGI
-611	(reference)
-611	(reference)
	(reference)
	612

700						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
701	user location	gps	47° 38.73° N, 122° 18.43° W	.00° 09°	13:11:04.023 2/22/2000	degrees/minutes	2
702	user.location	ips	47° 38.745° N, 122° 18.424° W	0°.021°	13:11:01.118 2/22/2000	degrees/minutes	2
703	user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
704	user.in_region	location_region_ analysis	none	none	none	none	1
	<b>L711</b>	712	_713	714	_715	716	_717

Fig. 7



906						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming.
901~	user.location	Sps	47° 38.73° N, 122° 18.43° W	.60° 0	13:11:04.023 2/22/2000	degrees/minutes	2
905	user.location	sdī	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118	degrees/minutes	2
903	user.elevation	ips	22.25	.5	13:11:06.565 2/22/2000	meters	1
904	user.in_region	region_analysis	none	none	none	none	1
-	-911	915	-913	914	915	916	-917
			IF	Hig. 9			

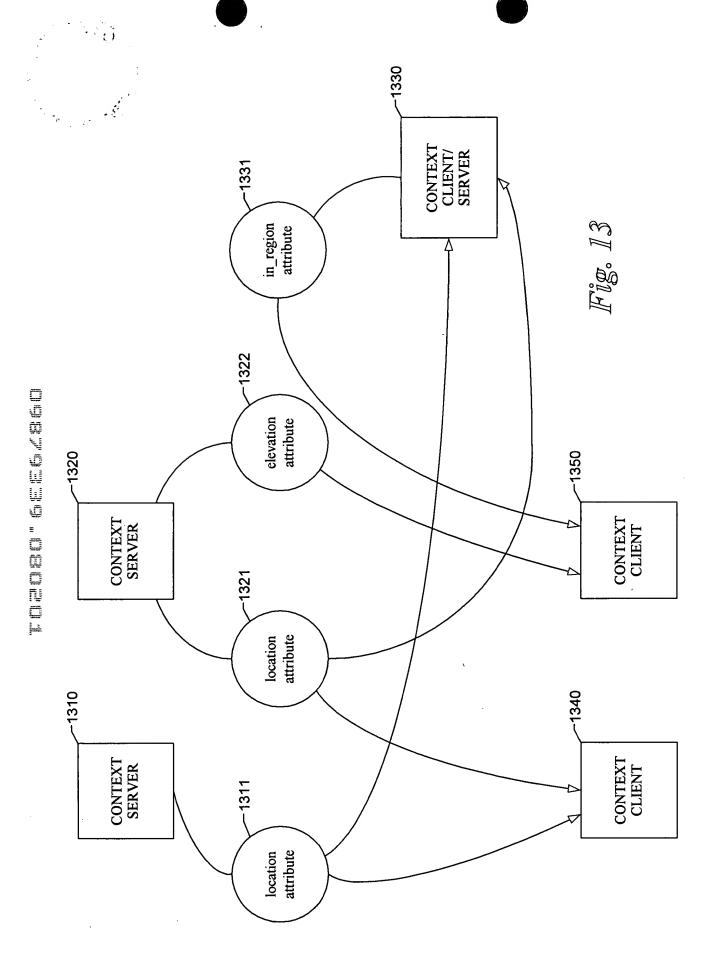
condition table	irst logical second logical comparison value logical operator parameter parameter	user.in_region none TRUE =	<u>1013</u> <u>1014</u> <u>1015</u> <u>1016</u>
	context client name	region_analysis u	
	condition name	1001 in region true	_1011
1000		1001	ı

Fig. 10

1100 ~				2	•		condition monitor table	nitor table	
	condition monitor name	context client name	condition name behavior frequency condition last trigger handler evaluated reference	behavior	frequency	condition last evaluated	trigger handler reference	stopped	•
11011	region_boundary_ 1101~ crossed	region_analysis	in_region_true	TRUE or 30 FALSE	30	13:11:29.101 2/22/2000	(reference)	ou	
	_1111	_1112	_1113	-1114	4 \_1115	51116	1117	1118	œ
			Hig. 11						

-1218 condition monitor table stopped yes trigger handler reference **~1217** (reference) **~1216** condition last evaluated 13:11:59.101 2/22/2000 ~1215 behavior | frequency 30 **~1214** TRUE or FALSE condition name in\_region\_true context client name region\_analysis -1212 condition monitor region\_boundary\_ **\_1211** name crossed 1201 1200~

Hig. 12



		attribute request table
	attribute name	context client name
1401~	user.location	distance_from_home
1402~	user.in_region	location_map
	user.location [gps]	location_region_analysis
	user.elevation	location_map
	1411	1412

Fig. 14

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in the state of th	
User.	Platform. (continued)
Desired_privacy_level	CPU.
Linterruptibility	Load
Speed	Speed Fig. 15
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile_availability	Total_capacity
Manual_availability	Used
Visual_availability	Connectivity.
Oral_availability	Connection_status
Auditory_availability	Connection_speed
Proximity <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection activity
Happiness	Power.
Sadness	Power source
Anger	Power level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number present
Eating	Number_close
	Local.
Running	Time
Sleeping	
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place_name	Wind_direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People_present
Floor	Ambient_noise_level
Building	Ambient_light_level
Address	Days. <pre>previous or future&gt;.</pre>
Street	High_temperature
City	Low_temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment. Local)</place>
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages waiting to be sent
Blood_pressure	Phone.
Respiration	Available
Person. < name or ID>. (same as User.)	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording
. incitor j_output_dovico_availability	1000101116

- 1) User Setting
- ....a) Mental Context
  - i) Meaning
  - ii) Cognition
    - (1) Divided User Attention
    - (2) Task Switching
    - (3) Background Awareness
  - iii) Solitude
  - iv) Privacy
    - (1) Desired Privacy
    - (2) Perceived Privacy
  - v) Social Context
  - vi) Affect
  - b) Physical Situation
    - i) Body
      - (1) Biometrics
      - (2) Posture
      - (3) Motion
      - (4) Physical Encumberment
        - (a) Senses
          - (i) Eyes
          - (ii) Ears
          - (iii) Tactile
          - (iv) Hands
          - (v) Nose
          - (vi) Tongue
        - (b) Workload demands/effects
        - (c) Interaction with computer devices
        - (d) Interaction with people
        - (e) Physical Health
    - ii) Environment
      - (1) Time/Space
      - (2) Objects
      - (3) Persons
        - (a) Audience/Privacy Availability
          - (i) Scope of Disclosure
          - (ii) Hardware affinity for privacy
          - (iii) Privacy Indicator for User
          - (iv) Privacy Indicator for Public
          - (v) Watching Indicator
          - (vi) Being Observed Indicator
      - (4) Ambient Interference
        - (a) Visual
        - (b) Audio
        - (c) Tactile

## 2) Computer

- a) Power
- b) Configuration
  - i) User Input Systems
    - (1) Hand/Haptic
      - (a) Keyboard/Keystrokes

Fig. 16

- (2) Voice/Audio
- (3) Eye Tracking
- (4) Cursors
  - (a) Axis
  - (b) Resolution
    - (i) Selection
    - (ii) Invocation
  - (c) Accelerators
- ii) Output Systems
  - (1) Visual
    - (a) Resolution
  - (2) Audio
    - (a) Public/Private
  - (3) Haptic
- iii) External Resources
  - (1) I/O devices
  - (2) Connectivity
- c) Data
  - i) Quantity/State
  - ii) Urgency/Importance
    - (1) Use of Prominence
  - iii) Modality
  - iv) Sensitivity/Purpose
    - (1) Privacy Issues
    - (2) Use of Association
    - (3) Use of Safety
  - v) Source/Ownership
    - (1) Types
      - (a) User generated
      - (b) Other computers or people
      - (c) Sensor
      - (d) PC State
    - (2) Use of Association

